

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A method for transmitting control information during transmission of packets, the method comprising:
transmitting symbols of the packet, the symbols of the packet including in-band symbols that are transition optimized; and
when control information is to be transmitted,
stopping the transmitting of the symbols of the packet;
transmitting an out-of-band symbol that is not transition optimized representing the control information; and
after the out-of-band symbol is transmitted, continuing with the transmitting of the symbols of the packet that have not yet been transmitted.
2. (Original) The method of claim 1 wherein the out-of-band symbol is one of two out-of-band symbols that form a primitive.
3. (Original) The method of claim 2 wherein one symbol of the primitive has a negative disparity and the other symbol of the primitive has a positive disparity.
4. (Original) The method of claim 2 wherein the primitive has a neutral disparity.
5. (Original) The method of claim 2 wherein the transmitting of the primitive has minimal effect on running disparity.
6. (Original) The method of claim 1 wherein the transmitting of the out-of-band symbol has minimal effect on running disparity.

7. (Cancelled)

8. (Original) The method of claim 1 including receiving the symbols of the packet via one port of a switch and transmitting the symbols of the packet via another port of the switch.

9. (Original) The method of claim 1 wherein the control information controls communications nodes of a storage area network.

10. (Original) The method of claim 1 wherein the control information controls a data store device.

11. (Original) The method of claim 1 wherein the symbols of the packet can include non-contiguous out-of-band symbols and wherein the control information includes contiguous out-of-band symbols.

12. (Previously Presented) A method for receiving control information while receiving a packet of symbols, the method comprising:
receiving a first portion of symbols of the packet, the symbols of the packet being in-band symbols that are transition optimized;
after receiving the first portion of symbols of the packet, receiving an out-of-band symbol that is not transition optimized representing the control information;
and
after receiving the out-of-band symbol, receiving a second portion of the symbols of the packet
wherein the control information interrupts the reception of the packet of symbols.

13. (Original) The method of claim 12 wherein the out-of-band symbol is one symbol of primitive comprising multiple symbols.

14. (Original) The method of claim 13 wherein the primitive comprises two out-of-band symbols.

15. (Original) The method of claim 12 including combining the first portion of the symbols with the second portion of symbol to form the packet of symbols.

16. (Original) The method of claim 12 wherein the control information is link control information.

17. (Original) The method of claim 12 wherein the method is performed by a communications node of a storage link network.

18. (Original) The method of claim 12 wherein the method is performed by a switch.

19. (Previously Presented) A communications device for transmitting control information during transmission of packets, comprising:

a packet transmission component that transmits symbols of the packet, the symbols of the packet being in-band symbols that are transition optimized; and

a control transmission component that interrupts the transmission of the symbols of the packet and transmits an out-of-band symbol that is not transition optimized representing control information; and

wherein the packet transmission component resumes transmitting the symbols of the packet after transmission of the out-of-band symbol representing control information.

20. (Original) The communications device of claim 19 wherein out-of-band symbol is one of two out-of-band symbols that form a primitive.

21. (Original) The communications device of claim 20 wherein one symbol of the primitive has a negative disparity and the other symbol of the primitive has a positive disparity.

22. (Original) The communications device of claim 20 wherein the primitive has a neutral disparity.

23. (Original) The communications device of claim 20 wherein the transmitting of the primitive has minimal effect on running disparity.

24. (Original) The communications device of claim 19 wherein the transmitting of the out-of-band symbol has minimal effect on running disparity.

25. (Cancelled)

26. (Original) The communications device of claim 19 wherein the control information controls communications nodes of a storage link network.

27. (Original) The communications device of claim 19 wherein the control information controls a data store device.

28. (Original) The communications device of claim 19 wherein the symbols of the packet can include non-contiguous out-of-band symbols and wherein the control information includes contiguous out-of-band symbols.

29. (Previously Presented) A method for transmitting control information during transmission of packets, the method comprising:

transmitting symbols of the packet, the symbols of the packet including in-band symbols and non-contiguous out-of-band symbols; and

when control information is to be transmitted,
stopping the transmitting of the symbols of the packet;
transmitting contiguous out-of-band symbols representing the control
information; and
after the out-of-band symbols are transmitted, continuing with the transmitting
of the symbols of the packet that have not yet been transmitted.

30. (Previously Presented) The method of claim 29 wherein the out-of-band symbol is one of two out-of-band symbols that form a primitive.

31. (Previously Presented) The method of claim 30 wherein one symbol of the primitive has a negative disparity and the other symbol of the primitive has a positive disparity.

32. (Previously Presented) The method of claim 30 wherein the primitive has a neutral disparity.

33. (Previously Presented) The method of claim 30 wherein the transmitting of the primitive has minimal effect on running disparity.

34. (Previously Presented) The method of claim 29 wherein the transmitting of the out-of-band symbol has minimal effect on running disparity.

35. (Previously Presented) The method of claim 29 including receiving the symbols of the packet via one port of a switch and transmitting the symbols of the packet via another port of the switch.

36. (Previously Presented) The method of claim 29 wherein the control information controls communications nodes of a storage area network.

37. (Previously Presented) The method of claim 29 wherein the control information controls a data store device.

38. (Previously Presented) The method of claim 29 wherein an in-band symbol is transition optimized and an out-of-band symbol is not transition optimized.

39. (Previously Presented) A method for receiving control information while receiving a packet of symbols, the method comprising:
receiving a first portion of symbols of the packet, the symbols of the packet being in-band symbols and non-contiguous out-of-band symbols;
after receiving the first portion of symbols of the packet, receiving contiguous out-of-band symbols representing the control information; and
after receiving the out-of-band symbol, receiving a second portion of the symbols of the packet
wherein the control information interrupts the reception of the packet of symbols.

40. (Previously Presented) The method of claim 39 wherein the out-of-band symbol is one symbol of primitive comprising multiple symbols.

41. (Previously Presented) The method of claim 40 wherein the primitive comprises two out-of-band symbols.

42. (Previously Presented) The method of claim 39 including combining the first portion of the symbols with the second portion of symbol to form the packet of symbols.

43. (Previously Presented) The method of claim 39 wherein the control information is link control information.

44. (Previously Presented) The method of claim 39 wherein an in-band symbol is transition optimized and an out-of-band symbol is not transition optimized.

45. (Previously Presented) The method of claim 39 wherein the method is performed by a communications node of a storage link network.

46. (Previously Presented) The method of claim 39 wherein the method is performed by a switch.

47. (Previously Presented) A communications device for transmitting control information during transmission of packets, comprising:

a packet transmission component that transmits symbols of the packet, the symbols of the packet being in-band symbols and non-contiguous out-of-band symbols; and

a control transmission component that interrupts the transmission of the symbols of the packet and transmits contiguous out-of-band symbols representing control information; and

wherein the packet transmission component resumes transmitting the symbols of the packet after transmission of the out-of-band symbol representing control information.

48. (Previously Presented) The communications device of claim 47 wherein out-of-band symbol is one of two out-of-band symbols that form a primitive.

49. (Previously Presented) The communications device of claim 48 wherein one symbol of the primitive has a negative disparity and the other symbol of the primitive has a positive disparity.

50. (Previously Presented) The communications device of claim 47 wherein the primitive has a neutral disparity.

51. (Previously Presented) The communications device of claim 47 wherein the transmitting of the primitive has minimal effect on running disparity.

52. (Previously Presented) The communications device of claim 47 wherein the transmitting of the out-of-band symbol has minimal effect on running disparity.

53. (Previously Presented) The communications device of claim 47 wherein the control information controls communications nodes of a storage link network.

54. (Previously Presented) The communications device of claim 47 wherein the control information controls a data store device.